

DECUS NO.

8-471

TITLE

VERIFY PAPER TAPE (12K)

AUTHOR

J. Shanahan Submitted by: J. H. McClure

COMPANY

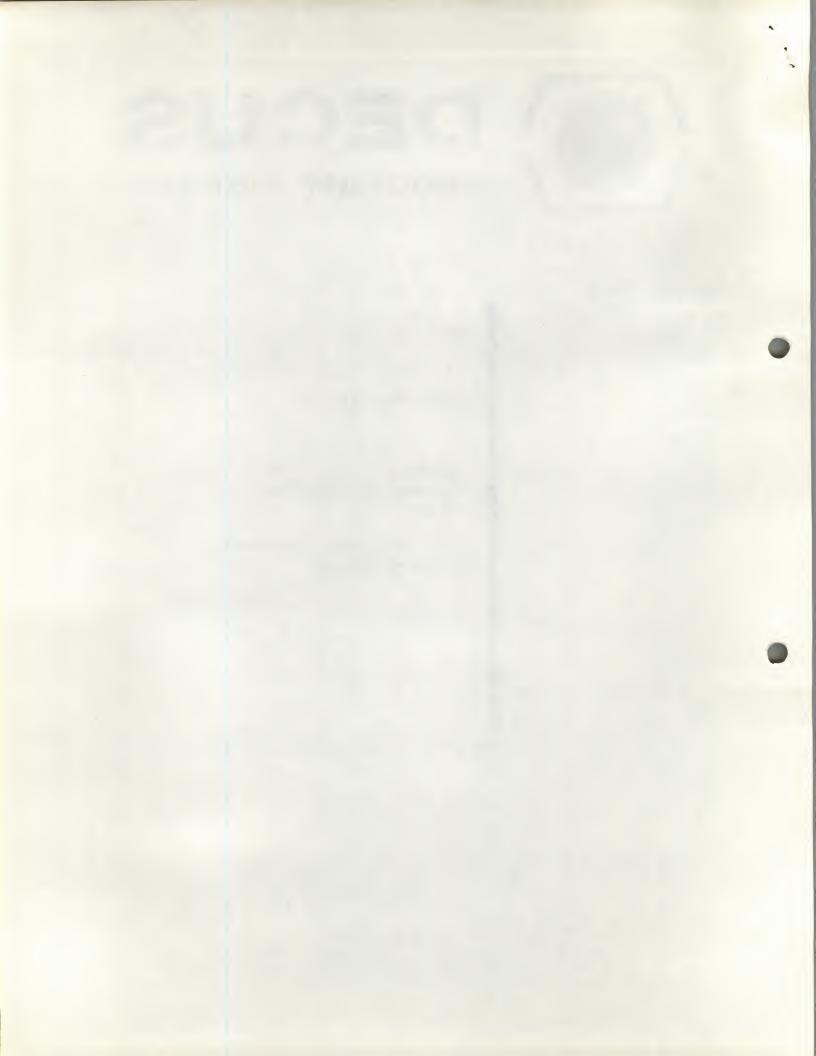
E. I. duPont de Nemours and Company Wilmington, Delaware

DATE

January 1970

SOURCE LANGUAGE

Although this program has been tested by the contributor, no warranty, express or implied, is made by the contributor, Digital Equipment Computer Users Society or Digital Equipment Corporation as to the accuracy or functioning of the program or related program material, and no responsibility is assumed by these parties in connection therewith.



Program to Verify Paper Tape

The purpose of this program is to verify that a tape is the same as the one from which it was copied or that two copies of a tape are the same. It is applicable to a PDP-8 system having at least 12K core.

Procedure

- 1. Set Instruction field to 0.
- 2. Load the program in Data field 0.
- 3. Load the known tape in Data field 1.
- 4. Load the tape to be verified in Data field 2.
- 5. In the first location after the last location on the known tape deposit some known number, i.e. data field l inst field l deposit XXXX.
- 6. In the same location in Data field 2 deposit some other known number, i.e. Data field 2 inst field 2 deposit YYYY.
- 7. Load add 0200 Data field 0 inst field 0.
- 8. Put up switches corresponding to the starting location of the tape.
- 9. Press start.

Results

- 1. Program halts in the first location where a difference between the tapes occurs.
- 2. Press continue AC shows contents of location of the halt from the known tape.

MQ shows contents of location of the halt from the tape to be verified.

3. Press continue again.

Computer will halt at the next location where there is a difference.

4. Press continue again - AC and MQ will be as above.

If the halt has occurred in the final location plus one where you have deposited the known numbers

Press continue AC XXXX (known number)
MQ YYYY (known number)

The tape has been verified.

Example

Known tape starting address 20 final address 7776

Procedure - tapes are loaded

Step 5 - DF 1 IF 1 locn 7777 deposit 7234

Step 6 - DF 2 IF 2 locn 7777 deposit 4327

Step 7 - DF 0: IF 0 LA 0200

Step 8 - Set SR to 0020

Step 9 - start

Computer Halts

Locn 7214

Press continue AC 4375 MQ 4296

Content of Content of tape known tape to be verified

Halt is not in 7777 . tapes do not check.

Computer Halts

Locn 7777

Press continue AC 7234 MQ 4327

These are number inserted . Tapes check and the tape being verified is identical to the known tape.

Test Program to Verify Bank

1 to Bank 2. Program resides in Bank O. Starting address in S.R.

200 s	tart	LAS	7604
1		DCA ADR 1	3222
2		TAD ADR 1	1222
2		DCA ADR 2 ·	
	gin	CDF 1	3223
	C	TAD, I ADR 1	6211
5		DCA Save 1	1622
7		CDF 2	3224
10			6221
11		TAD, I ADR 2	1623
12		DCA Save 2	3225
13		TAD Save 2	1225
14	·	CIA	7041
		TAD Save 1	1224
15 16		SZA CLA	7640
	3	JMP Display	5226
17 Ind	dex	ISZ ADR 1	2222
20		ISZ ADR 2	2223
21		JMP Begin	5204
22 ADF			0
23 ADF			0
24 Say			0
25 Sav			0
26 Dis	splay		MQL 7421
27		TAD ADR 1	1222
30		7402	7402
31		CLR	7200
32		TAD Save 2	1225
33		MQL	7421
34		TAD Save 1	1224
35		7402	7402
36		CLR	7200
37		J Index	5217
			J!

